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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 07/24/2003 10/626,225 Naoyuki Enjoji TOW-034 4543 **EXAMINER** 7590 02/24/2006 LAHIVE & COCKFIELD RHEE, JANE J 28 STATE STREET ART UNIT PAPER NUMBER BOSTON, MA 02109 1745

DATE MAILED: 02/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	_
Office Action Summary	10/626,225	ENJOJI ET AL.	
	Examiner	Art Unit	_
	Jane Rhee	1745	
 The MAILING DATE of this communication app Period for Reply 	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
2a) This action is FINAL . 2b) ⊠ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	yn from consideration		
5) Claim(s) is/are allowed.	William Consideration.		
6) Claim(s) 1-7 is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
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Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) □ acce			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correcti			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents have been received.			
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage	
application from the International Bureau	ı (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of	of the certified copies not receive	d.	
;			
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	atent Application (PTO-152)	
Paper No(s)/Mail Date <u>10/15/2002</u> .	6) Other:	,	

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DETAILED ACTION

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shimotori et al.

As to claims 1,6, and 7 Shimotori et al. discloses a fuel cell formed by stacking a plurality of electrode assemblies and separators alternately in a stacking direction (figure 3), each of the electrolyte electrode assemblies including a pair of electrodes and an electrolyte interposed between the electrodes (figure 3 number 8a,8b,8c), wherein the electrodes have a substantially square shape having a side length in a range of 140mm to 200mm, the separators have a substantially square shape having a side length in a range of 200mm to 300mm (col. 9 lines 36-38, also in col. 7 lines 41-44 it is well known in the art to provide square shaped electrodes and separators). As to claim 2, Shimotori et al. discloses a reactant gas supply passage and a reactant gas discharge passage extend through two parallel side portions of the separators (figure 10 number 24a,24b), in the stacking direction, and a coolant supply passage and a coolant discharge passage extend through other two parallel side portions of the separators in

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the stacking direction (figure 10a number15). As to claim 3, Shimotori et al. discloses that the centers of the electrodes are substantially in alignments with the centers of the separators (figure 3 number 10 and 8). As to claim 4, Shimotori et al. discloses that the reactant gas supply passage and the reactant gas discharge passage are formed symmetrically on a surface of the separator (figure 10a number 24a,24b). As to claim 5, Shimotori et al. discloses a straight reactant gas flow passage connecting the reactant gas supply and the reactant gas discharge passage is formed on the surface of the separator for supplying a reactant gas to the electrode (figure 10a number 11).

As to the limitation "the fuel cell stack being used for selectively forming a first assembly, second assembly, a third assembly, and a fourth assembly depending on conditions for installing the fuel cell stack in the vehicle, wherein...the fourth assembly is formed by arranging four fuel cell stacks in square shape in a front view such that the stacking direction is oriented substantially horizontally" is an intended use. It has been held that a recitation with respect to the manner in which the claimed particle is intended to be employed does not differentiate the claimed article form a prior art article satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499.

The examiner can normally be reached on M-F 9-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Rhee

February 15,2006

PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER